

COUNCIL COMMUNICATION

TO:	THE CITY COUNCIL	COUNCIL MEETING DATE	NO.
FROM:	THE CITY MANAGER'S OFFICE	NOVEMBER 15, 1989	
SUBJECT:	SPECIFICATIONS AND ADVERTISEMENT FOR THE PURCHASE OF HIGH-PRESSURE SODIUM LUMINAIRES		

RECOMMENDED ACTION: That the City Council approve the specifications for the purchase of a total of 200 High Pressure Sodium luminaires and authorize advertisement for bids thereon. The requirements include 120 100-watt and 80 250-watt luminaires.

The bid opening date has been scheduled for Tuesday, November 28, 1989.

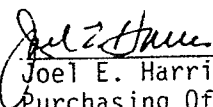
BACKGROUND INFORMATION: The Electric Utility Department has issued preliminary work orders to replace Mercury Vapor lights with the more economical High Pressure Sodium lights.

Some of the areas where the conversions will take place are

Turner Road between Stockton Street and Ham Lane, and  
Lower Sacramento Road to Rutledge/Rainier/Garden Drives,  
between Turner Road and Lodi Avenue

A portion of the quantity purchased will be placed in inventory to support routine maintenance and replacement.

The estimated cost of this purchase is \$16,000. Funding is available for this purchase in the Public Works/Street Light Maintenance account.

  
Joel E. Harris  
Purchasing Officer

cc: Director, Public Works Department  
Director, Electric Utility Department  
Assistant Director, Electric Utility Department  
Street Superintendent  
Electrical Engineer

## EQUIPMENT SPECIFICATIONS

### LUMINAIRES

#### GENERAL

Luminaires shall be furnished, without lamps or photoelectric control units, in compliance with these specifications. Equipment furnished shall be tested and approved, according to procedures set forth by I.E.S. specifications, and shall meet the minimum standards set forth in the ASTM and EEI-NEMA latest revisions.

#### LUMINAIRES

- A. Ballasts: Ballasts shall be of the regulated type and shall be integral with the luminaires. Ballasts shall have a minimum power factor of 90%; inrush current shall be less than operating current, shall operate at plus or minus 10% rated voltage. Voltage and wattage shall be as specified. Ballasts shall be of the type recommended for high pressure sodium lamps.
- B. Light Distribution: Luminaires shall be of Type III light distribution for multiple operation, equipped with photoelectric twist-lock type receptacle. The receptacle shall be adjustable to permit reorientation of the photoelectric control unit.
- C. Reflector: Reflector shall be removable and highly specular.
- D. Refractor: I.E.S. type refractor shall be furnished. Acrylic refractor shall be supplied for 100-watt and glass refractor shall be supplied for 250-watt luminaires. Refractor latch shall be vibration proof to prevent accidental opening of the door. Gaskets shall be used to seal the optical assembly at socket entry and between reflector and refractor.
- E. Slip Fitter: Slip fitter shall be adjustable from 1-1/4" through 2" pipe without rearranging of mounting parts, and adjustable plus or minus 5 degrees from horizontal.
- F. Housing: Outer housing shall be cast aluminum and similar in design to American Electric series 113 or General Electric series M2RR.

#### SPECIFIC

- A. Item 1: 100-watt, 120-volt, high-pressure sodium, similar to GE #M2RR10S1H2AMS3 or AE #113-56213-6.
- B. Item 2: 250-watt, 120/208/240/277-volt, high-pressure sodium, similar to GE #M2RR25S0H2GMS3 or AE #125-OH133.